



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/926,326	10/15/2001	Piero Del Soldato	108907-00020	5184
4372	7590 05/05/2004	EXAMINER		INER
ARENT FOX KINTNER PLOTKIN & KAHN 1050 CONNECTICUT AVENUE, N.W.			RAYMOND, RICHARD L	
SUITE 400		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036			1624	
			DATE MAILED: 05/05/2004	1

DATE MAILED: 03/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/926,326	DEL SOLDATO, PIERO			
	Office Action Summary	Examiner	Art Unit			
		Richard L. Raymond	1624			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C.§ 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>05 Fe</u>	<u>ebruary 2004</u> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 11-16 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 11-16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	vn from consideration.				
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen		_				
2) Notice 3) Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

Application/Control Number: 09/926,326 Page 2

Art Unit: 1624

DETAILED ACTION

Response to Amendment

- 1. The amendment of February 5, 2004 canceled claims 1-10 and added new claims 11-16. Accordingly, the claims now under consideration are claims 11-16.
- 2. The Section 112, second paragraph, rejection of record has been overcome by applicants' response.
- 3. While lack of unity was not indicated in applicants' corresponding PCT application, it is noted that the International Preliminary Examination Report therein states that a meaningful search of the whole scope claimed was not possible and was not done due to the large number of compounds encompassed. The present requirement for election of species is maintained as is the improper Markush rejection below.

Improper Markush Rejection

4. Claims 11-16 are rejected as being improper Markush claims in the definition of the B-C linker for the reasons of record and herein expanded to include the A group. So substituted, the resulting total compounds (A-B-C-NO₂) lack a common core and are structurally diverse and patentable distinct one from the others. Note the myriad possibilities for the T₁, T_b T_{b1}, T_c and Y linking groups and the vast number of drugs encompassed by the R and X₂ variables. A reference anticipating one under 35 USC 102 would not be a reference against the others under 35 USC 103. Additionally, an undue search burden exists because of this structural diversity. A large number of

Application/Control Number: 09/926,326 Page 3

Art Unit: 1624

classes and subclasses are involved in the U.S. classification system (classes 540, 544, 546, 548, 549, 558, 560, 562, 564 and 568 and corresponding subclasses in use class 514) in addition to the diverse structure searches in STN/CAS.

Claim Rejections - 35 USC § 112

- 5. Claims 11-16 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for certain drugs linked by certain linking groups, does not reasonably provide enablement for all drugs and enumerable combinations of linking groups. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims. See the discussion in the improper Markush rejection above.
- 6. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The definition of the claimed compounds by way of the desired properties shown by various tests render the claims indefinite. Compounds must be fully defined by nomenclature or structural formula. Reference to methods and properties obtained is not sufficient.

Conclusion

- 7. Applicants' related U.S. Patent No. 5,861,426 is made of record.
- 8. This action is not made final.

Application/Control Number: 09/926,326

Art Unit: 1624

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard L. Raymond whose telephone number is (571) 272-0673. The examiner can normally be reached on Monday-Thursday (9:30AM-8:00PM)).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund J. Shah can be reached on (571) 272-0674. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard L. Raymor Primary Examiner Art Unit 1624

rr May 3, 2004